

Trident High Voltage Series

With 10 times the Operating Voltage and 10% smaller, the future of automotive looks to Trident High Voltage.

The Challenge

Identifying the need to drive increased specification requests concerning voltage and current, customers requested a small connector which is shielded, robust, sealed and reliable.

The Engineered Product Solution

ITT, Interconnect Solutions answered the call by creating a new High Voltage series, which is based on the proven Trident Neptune Metal series. With an operating voltage of 500V (AC and DC) as well as a maximum operating current of 34A (for wire size 4,0mm² at 20°C) the Trident High Voltage Series allows the handling of a 10 times higher voltage with a smaller connector.

The trend for applications such as electric vehicles and industrial automation was a driving factor in the determining the need for a connector that could handle high voltage and high power. The smaller size of the connector allows a weight savings of 10% which makes your system more effective for weight management.

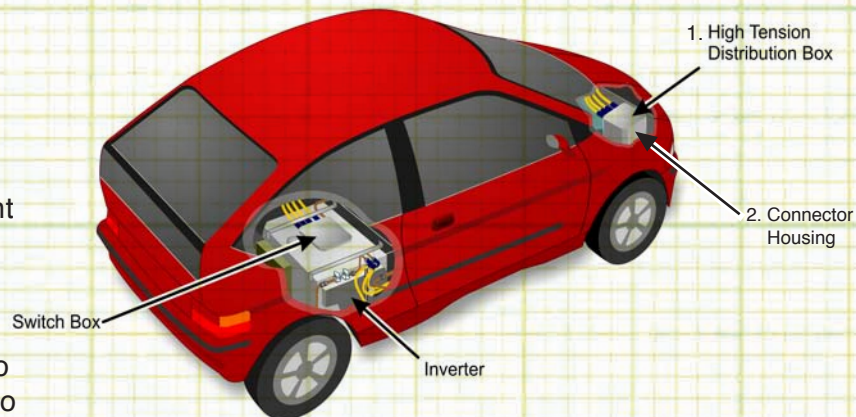
Innovative Interconnect Benefits

- VDE certified connector
- 6kV rated impulse voltage
- Up to 35A (for wire size 4,0mm² at 20°C)
- IP 67, sealed in mated condition
- Robust and shielded housing, full RoHS compliant



Attributes and Values

1. The new insulator body is specifically designed to allow the user to handle an operating voltage of up to 500V as well as an operating current of up to 34A, resulting in a voltage that can run 10 times higher than the standard Trident connector.
2. In combination with the industry proven Trident metal housing ITT has created a small connector allowing for a reduction of end product size and weight, a feature not found on most of our competitors products.
3. Our shielded Trident High Voltage connector system has full VDE certification which confirms our products safety and reliability.



Applications

- Electric Vehicles
- Hybrid Vehicles
- Agriculture Machinery
- Industrial Automation
- Construction Vehicles
- Robotics

For application assistance, please contact: • Americas: George Blazas +1 860.945.8294, george.blazas@itt.com
 • Europe: Joerg Maier, +49.7151.699.1777, joerg.maier@itt.com • ASIA: Robin He, +86.755.27267036, robin.he@itt.com
 • JAPAN: Atsushi Matsuo + 81.46.257.2010, atsushi.matsuo@itt.com